

Animal-Free I-TAC/CXCL11 Protein, Human (His)

Cat. No.:	HY-P700042AF
Synonyms:	I-TAC/CXCL11; C-X-C motif chemokine 11; Beta-R1; H174; IP-9; SCYB11
Species:	Human
Source:	E. coli
Accession:	O14625 (F22-F94)
Gene ID:	6373
Molecular Weight:	Approximately 9.11 kDa

PROPERTIES

AA Sequence	F P M F K R G R C L C I G P G V K A V K V A D I E K A S I M Y P S N N C D K I E V I I T L K E N K G Q R C L N P K S K Q A R L I I K K V E R K N F
Biological Activity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR3. The ED ₅₀ for this effect is <4 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	I-TAC/CXCL11 protein demonstrates chemotactic activity specifically for interleukin-activated T-cells while not attracting unstimulated T-cells, neutrophils, or monocytes. It induces calcium release specifically in activated T-cells and binds to CXCR3 receptors. This protein may have a significant role in central nervous system diseases that involve T-cell recruitment, as well as in skin immune responses. Additionally, it interacts with TNFAIP6 through its Link domain, suggesting potential involvement in modulating inflammatory processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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